

How do I calculate reverse percentage in Excel?

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June 22, 2024

RECOMMENDED CITATION

stats writer (2024). *How do I calculate reverse percentage in Excel?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=147131>

Calculating reverse percentage in Excel involves using a simple mathematical formula to find the original value based on a given percentage increase or decrease. This can be useful in various financial and data analysis tasks. To do this, you can use the formula " $\text{= original value} / (1 + \text{percentage})$ " in a cell to get the desired result. This will help you easily calculate the original value from a given percentage change.

Calculate Reverse Percentage in Excel

Often you may want to calculate a reverse percentage in Excel.

For example, *the value 48 is 75% of what number?*

To calculate this by hand, you would simply do $48 / 0.75 = 64$.

To perform this calculation in Excel, assuming 48 is in cell B2 and 75% is in cell C2, you could use the following formula:

`=B2/C2`

This formula would return the correct value of 64.

The following example shows how to use this formula in practice.

Example: Calculate Reverse Percentage in Excel

Suppose we have the following dataset that shows the number of points scored in the first quarter by various basketball teams along with the percentage of total points that the first quarter points represent:

	A	B	C	D	E
1	Team	1st Quarter Points	% of Total Points		
2	Mavs	25	20%		
3	Spurs	40	25%		
4	Rockets	30	30%		
5	Kings	30	20%		
6	Warriors	35	25%		
7	Nets	32	40%		
8	Lakers	40	20%		
9	Thunder	35	25%		
10	Blazers	39	39%		
11	Jazz	30	24%		
12					
13					
14					
15					
16					
17					
18					

For example, the Mavs scored 25 points in the first quarter, which represents 20% of their total points scored in the entire game.

To calculate a reverse percentage, i.e. find the total

number of points, we could perform the following calculation:

$$\text{Total Points} = 25 / 20\% = 25 / 0.20 = 125$$

We can type the following formula into cell C2 to perform this calculation in our spreadsheet:

=B2/C2

We can then click and drag this formula down to each remaining cell in column C:

	A	B	C	D	E
1	Team	1st Quarter Points	% of Total Points	Total Points	
2	Mavs	25	20%	125	
3	Spurs	40	25%	160	
4	Rockets	30	30%	100	
5	Kings	30	20%	150	
6	Warriors	35	25%	140	
7	Nets	32	40%	80	
8	Lakers	40	20%	200	
9	Thunder	35	25%	140	
10	Blazers	39	39%	100	
11	Jazz	30	24%	125	
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For example:

The Mavs scored $25 / 0.20 = 125$ total points. The Spurs scored $40 / 0.25 = 160$ total points. The Rockets scored $30 / 0.30 = 100$ total points. The Kings scored $30 / 0.20 = 150$ total points.

And so on.

The following tutorials explain how to perform other common tasks in Excel: